

COSTAR -STOP PVC WATERBAR

High Performance PVC Waterbar

Description

COSTAR PVC Waterstop is extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available as straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimise site jointing.

Working Principle

COSTAR PVC Waterstop is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur in the following types of structure.

Primary Uses

COSTAR PVC Waterstops is typically used for joints which occur in the following types of structure:

Water Retaining

- Sewage treatment plants, Water treatment plants, Swimming pools, Reservoirs, Dams and spillways

Water Excluding

- Tunnels, Basement areas, Retaining walls, Pits, Roof slabs, Underground carparks

Primary Benefits

- A range of profiles and sizes to suit all construction requirements
- Factory made intersections to simplify and minimise on-site fabrication
- Conforms to relevant international standards
- On-site welding equipment available
- Eyelets punched in outer flanges for easy wire tying to reinforcing bars
- Long roll lengths to reduce the amount of welding /joining on site

Standards

Costa-Stop PVC Waterbar is formulated to comply with all the requirements of:

- ISO 868 ASTM D2240
- ISO 1183 ASTM D792
- ISO 527 ASTM D638

Technical Properties

Tensile strength:	14 MPa (min)
Elongation at break:	250% (min)
Hardness shore "A":	70 -90
Hydrostatic head:	30 m
Joint movement:	Up to 10 mm

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Installation Instructions

Costar-Stop PVC Waterbar profiles are fixed generally in the middle of the slab or wall joint of the concrete structure. This profile creates a barrier to water trying either to enter or leave the structure. Its ability to withstand pressure from both sides makes Costar-Stop PVC Waterbar ideal for all water retaining and water excluding structures such as reservoirs and sewage treatment plants. The central bulb enables it to be safely used in joints where movement may occur. Costar-Stop PVC Waterbar can be used in horizontal and vertical applications for expansion, construction and contraction joints.

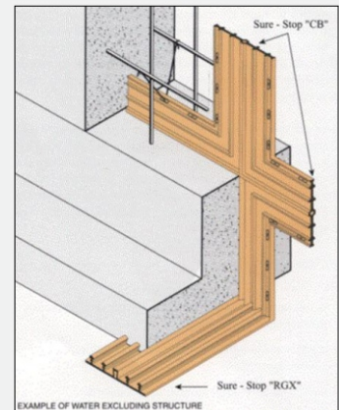
It is important that all waterstops are held securely during the concrete pour and that the concrete is properly compacted to remove voids and porous areas. Where reinforcing steel exists, sufficient space must be available to assist compaction. A series of eyelets have been formed into the outer flanges of the profile so the waterstop can be quickly wire-tied onto the neighbouring steel reinforcement without the risk of water ingress due to the profile falling over.

Site Joining

On-site joining is a simple exercise using COSTAR- STOP heat welding equipment comprising of an adjustable welding jig and heating blade. The ends of the waterstop are cut square and placed into the adjustable jig. The ends of the waterstop then slide up against the heating blade until a bead of molten PVC appears along the length of the blade. Remove the heating blade and bring the two ends together until the molten ends of the PVC fuse. When ordering welding equipment, please advise style and width of waterstop required. Full instructions are available from COSTAR Building products or your local distributor

Welding Equipment

Welding blades and separate welding jigs for COSTAR STOPS and Rearguard profiles are available for hire.



Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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